

NOISE AND VIBRATION SCREENING DISTANCES

APPENDIX 3.4-A

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Table 3.4-A-1
Noise Screening Distances for High-Speed Train (HST) Alternative

Speed (miles per hour)	Type of Corridor	Land Use—Ambient	Distance ¹ (feet)
≥125	Existing Rail	Urban/Noisy Suburban	450
		Quiet Suburban/Rural	900
	Existing Highway	Urban/Noisy Suburban	450
		Quiet Suburban/Rural	700
<125	New Rail	Urban/Noisy Suburban	450
		Quiet Suburban/Rural	900
	Any	Urban/Noisy Suburban	375
		Quiet Suburban/Rural	750
Station ²	Any	Urban/Noisy Suburban	225
		Quiet Suburban/Rural	450

Ambient noise threshold for suburban/rural is 55 to 60 day-night average level (L_{dn}).
¹ Measured from centerline of track.
² For a distance of 0.25 mile in either direction from center of station.

Table 3.4-A-2
Vibration Screening Distances for HST Alternative

Speed (miles per hour)	Receptor Type	Distance* (feet)
≥125	Special Facilities (e.g., concert halls, research)	750
	Residential	220
	Institutional (e.g., schools, public buildings)	160
<125	Category 1 (e.g., concert halls, research)	600
	Category 2 (e.g., residences, theaters, auditoria)	200
	Category 3 (e.g., schools, public buildings)	120

* Measured from centerline of track.

Table 3.4-A-3
Noise Screening Distances for Highways

Number of Lanes	Distance* (feet)
2	242
4	335
6	390
8	455
10	510
12	580
14	640
16	715

* Measured from centerline of highway.